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(54) Title: PEPTIDES AND PEPTIDOMIMETICS USEFUL FOR INHIBITING THE ACTIVITY OF PROSTAGLANDIN F<sub>2α</sub>  
RECEPTOR(57) Abstract: The invention relates to compositions which are useful for inhibiting prostaglandin F<sub>2α</sub> receptor. The compositions include, but are not limited to, linear peptides, peptide analogs, and peptidomimetics. Methods of using the compositions of the invention to treat preterm labor and dysmenorrhea are disclosed.